Attachment H: Engineering Documentation

Part 2: Hydrologic and Hydraulic Consistency Worksheet

Inland Water Resources Division Permit Activities

This worksheet has four sections; only complete the section(s) applicable to the proposed project. Where a question requires a "Yes" or "No" answer, select the appropriate response and explain your response, if required, in the space provided.

- **Section I:** Floodplain Management (if the proposed project involves a structure, obstruction, encroachment or work in a watercourse, floodplain, or coastal high hazard area)
- **Section II:** Stormwater Management (if the proposed project involves stormwater drainage or stormwater runoff)
- Sections III: State Grants and Loans and Section IV: Disposal of State Land (only if the applicant is a state agency seeking flood management certification approval for state grants and loans or disposal of state land)

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Definitions of terms used in these worksheets are found in Section 25-68b of the Connecticut General Statutes and Section 25-68h-1 of the Regulations of Connecticut State Agencies and in the National Flood Insurance Program Regulations (44 CFR, Chapter 1, Subchapter B, Part 59.1).

Section I: Floodplain Management

Naı	Name of Applicant:					
Naı	me c	f Proposed Project:				
1.	Ge	eneral Criteria				
	a.	Critical Activity - Does the proposed project involve the treatment, storage and disposal of hazardous waste or the siting of hospitals, housing for the elderly, schools or residences, in the 0.2 per cent [500 year] floodplain? Yes No				
		If yes, the base flood for the critical activity shall have a recurrence interval equal to the 500 year flood event; if no, the base flood for the activity shall have a recurrence interval equal to the 100 year flood event.				
	b.	Nonintensive Floodplain Uses - Will the proposed project promote development in floodplains or will utilities servicing the project be located so as to enable floodplain development?				
		∐ Yes □ No				
		Explain:				
		National Flood Incurrence Drogram (NEID) Will the proposed project be legated within an area of angular				
	C.	National Flood Insurance Program (NFIP) - Will the proposed project be located within an area of special flood hazard designated by the Federal Emergency Management Agency (FEMA)?				
		☐ Yes ☐ No If yes, list the FEMA flood zone(s):				
		Does the proposed project meet the NFIP minimum standards established in 44 CFR, Chapter 1, Subchapter B, Part 60.3, floodplain management criteria for flood-prone areas?				
		☐ Yes ☐ No				
	d.	Municipal Regulations - Has the municipality in which the proposed project is to be located adopted floodplain regulations containing requirements that are more restrictive than the NFIP floodplain management criteria for flood-prone areas?				
		If yes, describe the more restrictive requirements:				
		Does the proposed project comply with the more restrictive standards of the municipality?				
		☐ Yes ☐ No				

 a. Flooding - Will the proposed project pose any hazard to human life, health or property in the event of base flood? If yes, explain: 	а
If yes, explain:	
b. Flood Velocities - Will the proposed project cause an increase in flow velocity or depth during the ba flood discharge? Yes No	se
If yes, the increase in velocity is: fps and/or the increase in depth is: ft.	
Will such increase in velocity or depth cause channel erosion or pose any hazard to human life, hea property?	lth or
Explain:	
c. Flood Storage - Will the proposed project affect the flood storage capacity or flood control value of the floodplain?	е
If yes, describe the effects:	
d. Degrading or Aggrading Stream Beds - Is the streambed currently degrading or aggrading? ☐ Degrading ☐ Aggrading ☐ Neither	
Has the project design addressed degrading or aggrading streambed conditions?	
Yes No	
e. <i>Ice Jams</i> - Is the watercourse prone to ice jams or floods due to ice?	
e. Ice Jams - Is the watercourse prone to ice jams or floods due to ice? Yes No Has the project design considered ice jams or floods due to ice? Yes No	

	f.	Storage of Materials & Equipment - Will the construction or use of the proposed project involve the storage of materials below the 500 year flood elevation that are buoyant, hazardous, flammable, explosive, soluble, expansive or radioactive, or the storage of any other materials which could be injurious to human, animal or plant life in the event of a flood?
		☐ Yes ☐ No
		If yes, describe the materials and how such materials will be protected from flood damage, secured or removed from the floodplain to prevent pollution and hazards to life and property.
		Storage of materials that could be injurious to human health or the environment in the event of flooding is prohibited below the elevation of the 500 year flood. Other material or equipment may be stored below the 500 year flood elevation provided that such material or equipment is not subject to major damage by floods, and provided that such material or equipment is firmly anchored, restrained or enclosed to prevent it from floating away or that such material or equipment can be removed prior to flooding.
	g.	Floodwater Loads - Will structures, facilities and stored materials be anchored or otherwise designed to prevent floatation, collapse, or lateral movement resulting from hydrodynamic and hydrostatic loads, including the effects of buoyancy? Yes No
3.	Sta	andards for Structures in Floodplains or Coastal High Hazard Areas
		es the proposed project involve a new or substantially improved structure or facility located within a
		odplain or coastal high hazard area?
	If y	es, complete this subsection; if no, skip to subsection 4 (<i>Topography Changes within Floodplain</i>).
	a.	Structures in Coastal High Hazard Areas - Will the structure or facility be located within an NFIP coastal high hazard area? Yes No
		If no, skip to paragraph 3(b); if yes:
		1. Will the structure or facility be located landward of the reach of mean high tide?
		☐ Yes ☐ No
		2. Will a new structure or facility be located on an undeveloped coastal barrier beach designated by FEMA? No
		3. If the structure or facility is/will be located within a coastal high hazard area, the structure or facility must be elevated on pilings or columns so that the bottom of the lowest horizontal structural member of the lowest floor (excluding the pilings or columns) is elevated to at least one foot above the base flood level and the pile or column foundation and structure attached thereto must be anchored to resist floatation, collapse and lateral movement due to the effects of wind, velocity waters, hurricane wave wash, and base flood water loads acting simultaneously on all building components.
		Does the proposed structure or facility meet these standards?
		The base flood elevation is: ft. (Datum:)
		The elevation of the lowest horizontal structural member is: ft. (Datum:)

	4. Will the space below the lowest floor be either free of obstruction or constructed with non-supporting breakaway walls? ☐ Yes ☐ No
	5. Will fill be used for structural support of any buildings within coastal high hazard areas? ☐ Yes ☐ No
b.	Structures in Floodplain Areas - Are the structures residential or nonresidential?
	Residential Nonresidential If nonresidential, skip to paragraph 3(d) below.
C.	Residential Structures - If the structure or facility is for human habitation will the lowest floor of such structure or facility, including its basement, be elevated one foot above the level of the 500 year flood? Yes No
	The 500 year flood elevation is: ft. (Datum:)
	The elevation of the lowest floor, including basement, is: ft. (Datum:)
d.	Non-residential Structures - If the structure or facility is not intended for residential uses, will the lowest floor of such structure or facility, including its basement, be elevated to or above the 100 year flood height or be floodproofed to that height, or in the case of a critical activity, the 500 year flood height?
	☐ Yes ☐ No
	If yes, the structure will be: Elevated Floodproofed
	The base flood elevation is: ft. (Datum:)
	The elevation of the lowest floor, including basement, is: ft. (Datum:
	The structure is floodproofed to: ft. (Datum:
	Note: for insurance purposes nonresidential structures must be floodproofed to at least one foot above the base flood elevation. DEP strongly encourages that the height of floodproofing incorporate one foot of freeboard.
e.	Utilities - Will service facilities such as electrical, heating, ventilation, plumbing, and air conditioning equipment be constructed at or above the elevation of the base flood or floodproofed with a passive system? Yes No
f.	Water Supply Systems - Does the proposed project include a new or replacement water supply system? ☐ Yes ☐ No
	If yes, is the water supply system designed to prevent floodwaters from entering and contaminating the system during the base flood? \Box Yes \Box No
g.	Sanitary Sewage Systems - Does the proposed project include a new or replacement sanitary sewage or collection system? Yes No
	If yes, is the sanitary sewage system designed to minimize or eliminate the infiltration of flood waters into the systems and discharges from the systems into flood waters during the base flood? Yes No
h.	Foundation Drains - Are foundation drains of buildings designed to prevent backflow from the 100 year frequency flood into the building?
	☐ Yes ☐ No ☐ No foundation drains

4.	Ac	<i>tivity</i> w	ithir/	ı Floo	dplain										
			-		ject involve g, or gradi	-	in a flood	dplair	includi	ng but	not limi	ited to	filling, c	lumping	g,
		Yes		No	lf no, ski	p to sub	section 5	(Alt	erations	s of W	atercou	ırses).			
					ed project developm								ıction, s	ubstan	tial
		Yes		No	If yes, sk	kip to pai	agraph 4	4(b) b	elow.						
	a.	A1-30 a combine of the bimpacts	and Aned works	i, subst AE unle vith all of flood m y be ev	ss it is der other existin nore than o	ovement nonstrate ng and a ne foot a	s, or othed that the nticipated any po	er de ne cur d dev int. (l'	velopme nulative elopme f no reg	ent (inc e effect nt, will ulatory	cluding of the not inc floodw	fill) sha propos rease f ay has	all be pe ed deve the wate been a	ermitted elopme er surfa edopted	I within Zones nt, when ace elevation
		Is the p	oropo	sed pro	oject consi	stent wit	h this red	quirer	ment?		Yes		No		
	b.		-		<i>hment</i> s - W either the <i>'</i>		•				the floo	dway ı	esult in	any in	crease in
		100 ye	ar:		Yes; the	increase	e is:	(in	1/100th	ns of a	foot)			No	
					icant recei t 65.12?	ved appi		_	ncrease No	in acc	ordanc	e with	44 CFR	, Chap	ter 1,
		10 yea	r:		Yes; the	increase	e is:	(ir	n 1/100t	ths of a	foot)			No	
	C.	the cor	nbine se flo	ed occu od in w		ides, sto	rm surge	es, an	d peak	runoff.	The sta	arting \	water su	ırface e	e profiles of elevation for frequency
		If the p	ropo	sed pro	ject is in a	coastal	area, ha	ve the	e hydrai	ulic ana	alyses i	ncorpo	rated th	nese cri	iteria?
		☐ Ye	s		No	☐ No	t in Coas	stal A	rea						
5.	Alt	eration	ıs of	Wate	rcourses										
		es the pade char		-	oject includ	e the co	nstructio	n or a	alteratio	n to a ı	natural	perenr	nial wate	ercours	e or man-
	su	Yes bsection	n:] No	If no, skip	to subse	ection 6	(Culv	erts an	d Brid	ges) ; if	yes, c	omplete	the fol	llowing
	a.				e - Is the w		rse or ch		l located	d within No	ı a regu	ılatory	floodwa	y or Zo	one A1-30 or
	b.	Hydrau year fre			- Does the	channe Yes	I have a	minin No	num flov	w capa	city of a	a flood	equal to	o at lea	ast the 25
		The ch	anne	l capac	ity is desig	ned for	the:	yea	ar flood.						
		Does th	he ch	annel h	nave an inr	ner chani	nel with a	а сара	acity of	a 2 yea	ar frequ	iency f	lood?	☐ Ye	es 🗌 No

C.	includir	c Habitat - Channel alterations should be designed to create aquatic habitats suitable for fisheries, ng suitable habitat for maintaining fish populations and to enable fish passage, and to maintain or e water quality, aesthetics, and recreation.
	Has the	e applicant had any pre-application meetings or correspondence with DEP Fisheries?
	☐ Ye	s 🗆 No
	Check	each of the following criteria that have been incorporated into the project design:
	□ 1.	artificial channel linings have been avoided;
	□ 2.	the channel will encourage ecological productivity and diversity;
	□ 3.	the channel and its banks will be compatible with their surroundings;
	☐ 4.	the channel will vary in its width, depth, invert elevations, and side slopes to provide diverse aquatic habitat;
	□ 5.	straightening existing channels and thereby decreasing their length has been avoided;
	□ 6.	the channel will not create barriers to upstream and downstream fish passage;
	7.	the channel will contain pools and riffles and a low flow channel to concentrate seasonal low water flows;
	□ 8.	the channel will contain flow deflectors, boulders and low check dams to enhance aquatic habitat;
	9.	stream bank vegetation will be preserved where feasible and disturbed stream bank areas will be replanted with suitable vegetation;
	□ 10.	clean natural stream bed materials of a suitable size will be incorporated in the new channel; and
	☐ 11.	construction of the proposed project will be scheduled to minimize conflicts with spawning, stocking, and recreational fishing seasons.
	Describ	be how the above aquatic habitat design criteria have been incorporated into the project design:

6.	Cu	llverts and Bridges					
	Does the proposed project involve the repair or new construction of a culvert or bridge?						
		Yes No If no, go to subsection 7 (Temporary Hydraulic Facilities).					
	lf y	If yes, complete this subsection:					
	a.	Fish Passage - Does the culvert design allow for the passage of fish?					
		If yes, describe the specific design provisions for fish passage:					
	b.	Depressed Structural Floors - Is the rigid structural floor of the culvert or bridge depressed below the normal stream bed to allow a natural stream bed to form over the floor?					
		☐ Yes ☐ No ☐ No rigid structural floor					
	c.	Multiple Openings - The use of a single large culvert or bridge opening is preferred over the use of multiple					
		small openings. Has the design minimized the use of multiple small openings?					
		Yes No					
		If no, explain:					
	d.	Sag Vertical Curves - Does the design utilize solid parapet walls in the sag part of a vertical curve?					
		☐ Yes ☐ No ☐ Not located in a sag vertical curve					
	e.	Debris Blockage - Is the culvert or bridge prone to blockage by debris? ☐ Yes ☐ No					
		If yes, has the project design incorporated measures to minimize the potential for debris blockage?					
		∐ Yes ∐ No					
	f.	Topography Change - Is the culvert or bridge located within a regulatory floodway or Zone A1-30 or AE as					
		designated by the NFIP?					

g.	State Highways - Does the watercourse pass under a state roadway?
	☐ Yes ☐ No If no, skip to paragraph 6(g)(2).
	If yes, culverts and bridges for state highways shall be designed in accordance with the Connecticut Department of Transportation (DOT) Drainage Manual and all applicants should refer to it for specific design criteria. In general, however, the Drainage Manual requires the following:
	(Place a check mark for all applicable criteria utilized)
	☐ <i>Minor Structures</i> - Minor structures have a drainage area of less than one square mile in which there is no established watercourse. They shall be designed to pass the 25 year frequency discharge.
	☐ Small Structures - Small structures have a drainage area of less than one square mile in which there is an established watercourse. They shall be designed to pass the 50 year frequency discharge.
	☐ Intermediate Structures - Intermediate structures have a drainage area greater than one square mile and less than 10 square miles. They shall be designed to pass the 100 year frequency discharge with reasonable underclearance.
	☐ Large Structures - Large structures have a drainage area greater than 10 square miles and less than 1000 square miles. They shall be designed to pass the 100 year frequency discharge with an underclearance not less than two feet.
	☐ <i>Tidal Structures</i> - Tidal structures are subject to tidal action and shall be classified as minor, small, intermediate, etc. depending on their drainage area. These structures shall be designed in accordance with the previously listed <i>classifications</i> . However if the highway is subject to frequent tidal flooding, the design storm may be made consistent with the frequency of flooding by tidal action. The proposed culvert or bridge is classified as:
	☐ Tidal, minor
	☐ Tidal, small
	☐ Tidal, intermediate
	☐ Tidal, large
	☐ Tidal, monumental
	 Has the structure been designed in accordance with the criteria established in the DOT Drainage Manual? Yes No
	If no, describe the lower design standards and the reasons for not complying with the DOT Drainage Manual:

	f	Will the proposed culvert or bridge increase upstream water surface elevations in the event of a base lood above that which would have been obtained in the natural channel if the highway embankment were not constructed? Yes No
	I	f yes, is the increase in elevation more than one foot? Describe:
	e C I k	Will the proposed culvert or bridge be designed so that flooding during the design discharge does not endanger the roadway or cause damage to upstream developed property? (NOTE: The design discharge for culverts and bridges on state highways should be that which was determined by FEMA. If the applicant judges that the FEMA discharge is inappropriate, the project should be analyzed for both the applicant's computed flow and the FEMA discharge. The project, however, must still meet the standards of the NFIP.)
	E	Explain:
h.	frequ	I Roads & Driveways - Local roads (not state highways) and driveways may be designed for flood encies and underclearances less stringent than those specified in the DOT Drainage Manual when ck all that have been incorporated into the project design):
		the road is at or close to the floodplain grade
		water surface elevations are not increased by more than one foot nor cause damage to upstream properties
		3. provisions are made to barricade the road when overtopped
		the road or driveway is posted as being subject to flooding
		5. the road or driveway has low traffic volume
		6. alternate routes are available
		culvert or bridge has been designed to pass the: year frequency discharge with an rclearance of: feet.
		ing the DOT Drainage Manual classifications listed under paragraph 6(g) above, the culvert or bridge is ified as a: structure.

	h.	If the culvert or bridge is designed to standards lower than which is stipulated in the DOT Drainage Manual, list such standards and the reasons for the lower design standards:
	i.	Downstream Peak Flows - Will the proposed culvert or bridge increase downstream peak flows by decreasing existing headwater depths during flooding events? Yes No
		If yes, describe the selected design criteria and the impacts to downstream properties:
7.	Te	mporary Hydraulic Facilities
	cha	mporary hydraulic facilities include all channels, culverts or bridges which are required for haul roads, annel relocations, culvert installations, bridge construction, temporary roads, or detours. They are to be signed with the same care which is used for the primary facility.
	If th	ne proposed activity involves a temporary hydraulic facility(s), has such facility been designed in accordance h Chapter 6, Appendix F, "Temporary Hydraulic Facilities," of the DOT Drainage Manual?
		Yes ☐ No ☐ No temporary hydraulic facilities
	If y	es, the design flood frequency is the: year flood.
	De	scribe the temporary facilities:

Section II: Stormwater Management

	Name of Applicant:				
Name of Proposed Project:					
1.	Stormwater Runoff				
	The proposed project w	rill (check all that apply):			
	☐ Increase the area of impervious surfaces				
	☐ Increase runoff coe	fficients			
	☐ Alter existing draina	age patterns			
	☐ Alter time of concentrations				
	☐ Change the timing	of runoff in relation to adjacent watersheds			
	Will the proposed proje volume of runoff?	ect impact downstream areas by increasing p	eak flow rates, the timing of runoff, or the		
	If yes, describe the dov	wnstream impacts for the 2, 10 and 100 year	frequency discharges:		
	The pre and post development peak flow rates at the downstream design point are as follows:				
	The pre and post deve	lopment peak flow rates at the downstream d	lesign point are as follows:		
	The pre and post devel	lopment peak flow rates at the downstream d			
	Return Frequency	Peak Disch	arges (CFS)		
	Return Frequency (Year)	Peak Disch	arges (CFS)		
	Return Frequency (Year)	Peak Disch	arges (CFS)		
	Return Frequency (Year) 2 10 100 The above peak dischar	Peak Disch	arges (CFS)		
	Return Frequency (Year) 2 10 100	Peak Discha	Post-Development		
	Return Frequency (Year) 2 10 100 The above peak dischar	Peak Discha	Post-Development		
	Return Frequency (Year) 2 10 100 The above peak dischar	Peak Discha	Post-Development		
	Return Frequency (Year) 2 10 100 The above peak dischar	Peak Discha	Post-Development		
	Return Frequency (Year) 2 10 100 The above peak dischar	Peak Discha	Post-Development		
	Return Frequency (Year) 2 10 100 The above peak dischar	Peak Discha	Post-Development		
	Return Frequency (Year) 2 10 100 The above peak dischar	Peak Discha	Post-Development		
	Return Frequency (Year) 2 10 100 The above peak dischar	Peak Discha	Post-Development		

Section II: Stormwater Management (continued)

	Describe the location of the design point and why this location was chosen:				
2.	2. Stormwater Detention Facilities				
	Does the proposed project include the construction of any stormwater detention facilities?				
	☐ Yes ☐ 1	No If no, skip to subsection	on 3 (Storm Drainage System	ıs).	
	If yes, has the DEP det	termined whether a dam cons	truction permit is required?	☐ Yes ☐ No	
	The pre and post devel	opment peak flow rates at the	downstream design point are	as follows:	
	Return Frequency	Peak Discharges (CFS)			
	(Year)	Pre-Development	Post-Development (without detention)	Post-Development (with detention)	
	2				
	10				
	100				
	The above peak discharges were computed utilizing the: hour duration storm. This duration storm was selected because:				
Ì					
	Describe the location of	f the design point and why thi	s location was chosen:		

Section II: Stormwater Management (continued)

	If the proposed project increases peak flow rates for the 2, 10 or 100 year frequency discharges, describe the impacts to downstream areas:		
	Will the detention facility aggravate erosion along the downstream channel? ☐ Yes ☐ No		
	In certain situations, detention of stormwater aggravates downstream flooding. This occurs when the disciplant of the subwatershed is delayed by a detention facility so that it adds to the peak discharge from another subwatershed. Adding the hydrographs of the two subwatersheds results in a higher peak discharge over which would occur if detention were not present.		
	Is the location of the detention facility within the watershed suitable for detention? Yes No		
	Explain:		
3.	Storm Drainage Systems		
	Does the proposed project include the construction of subsurface storm drainage systems?		
	☐ Yes ☐ No If no, you have completed Section II of the worksheets.		
	If yes, complete this subsection:		
	 a. DOT Standards - Is the proposed storm drainage system designed in accordance with the Connecticut Department of Transportation's (DOT) Drainage Manual? Yes No 		
	If no, describe the lower design standards and the reasons for not complying with the Drainage Manual:		
	 b. Design Storm - Is the storm drainage system designed for a ten year frequency storm without closing the use of the facility? ☐ Yes ☐ No 		
	c. Future Development - Has the design of the system considered future development of adjacent properties? Yes No		

Section II: Stormwater Management (continued)

d.	Outlet Protection - Have the outlets from the system been designed to minimize the potential for downstream erosion?
e.	Overland Flow - Has the use of curbing been minimized to encourage overland dispersed flow through stable vegetated areas?
f.	Vegetated Filter Strips - Has the design incorporated the use of vegetated filter strips or grass swales to improve the quality of water outletting from the storm drainage system? ☐ Yes ☐ No
g.	Stormwater Treatment - Describe features of the stormwater collection system intended to improve the quality of stormwater runoff prior to its discharge to surface waters.
h.	E & S Control Plan - Has the design and installation of the storm drainage system been coordinated with the soil erosion and sediment control plan prepared in accordance with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control? Yes No Explain:

Section III: State Grants and Loans

Name of Applicant:			
Name of Proposed Project:			
1.	This Flood Management Certification concerns a:	grant	loan
2.	Total amount of grant or loan: \$		
3.	The recipient of the grant or loan will be: Name: Mailing Address:		
	City/Town:	State:	Zip Code:
	Phone:	ext.	Fax:
	Recipient Contact person: Name: Mailing Address: City/Town: Phone:	State:	Zip Code: Fax:
	Frione.	ext.	rax.
4.	 The recipient will use the grant or loan to (check all that apply): construct a structure, obstruction or encroachment or conduct other work within a floodplain or coastal high hazard area. construct a facility or develop a site affecting drainage and stormwater runoff. conduct a study or prepare a report concerning land use or land use planning affecting a floodplain, drainage or stormwater runoff. 		
5.	. If the grant or loan is for a study or report, describe the anticipated effects on floodplains, drainage or stormwater runoff if the recommendations are implemented:		
6.	Will the proposed project promote development in floodpla as to enable floodplain development? Yes Explain:	ins or will util □ No	lities servicing the project be located so
	If the grant or loan is for construction of a structure, obstruction of a facility or developed runoff, Sections I and/or II of this Worksheet must be compand plans (Attachment G) must be provided as part of this	nent of a site pleted and the	that will affect drainage and stormwater

Section IV: Disposal of State Land

Name of Applicant:			
Name of Proposed Project:			
1.	The grantee will be: Name:		
	Mailing Address:	04-4-	7:- O- d-
	City/Town:	State:	Zip Code:
	Phone:	ext.	Fax:
	Contact Person:	Phone:	
2.	Describe the current state of development and use of the land to be disposed.		
3.	Why is the agency disposing of the land?		
3.	with is the agency disposing of the land:		
4.	Describe the grantee's intended use of the land.		
5.	Will the disposal of the land promote development in floodplaie Explain:	ins? 🔲 Y	∕es □ No
6.	Will the grantee's use of the land be consistent with the state ☐ Yes ☐ No Explain:	's flood managei	ment statutes and regulations?